

Analysis Frameworks

CMPUT 620 — Static Program Analysis Karim Ali

> September 19, 2017 GSB 8-59

To Clone

- https://github.com/staticanalysisseminar/ hands-on
- https://github.com/Sable/soot
- https://github.com/karimhamdanali/probe
- https://github.com/karimhamdanali/averroes
- https://github.com/wala/WALA (only need core, core.tests, shrike, and util)

Announcements

- Guest lectures
- 1-1 with Julian Dolby (IBM Research)
- Assignment solutions
- Seminars

Analysis Frameworks

- Soot
- WALA
- Averroes

Soot

- https://github.com/Sable/soot
- Extensive set of tutorials @ https://github.com/
 Sable/soot/wiki/Tutorials
- Lots of documentation in the wiki @ https://github.com/Sable/soot/wiki
- Hands-on: call graphs

WALA

- http://wala.sourceforge.net/wiki/index.php/
 Main Page
- Not many tutorials, or documentation
- But it's highly tuned for performance!
- Hands-on: call graphs

Averroes

- https://github.com/karimhamdanali/averroes
- Tutorial: http://karimali.ca/averroes-tutorial
- Hands-on: partial call graph analysis compared to Soot & WALA

Flix

- http://flix.github.io
- http://flix.github.io/doc/getting-started.html
- Hands-on: constant propagation

Soufflé

- https://github.com/souffle-lang/souffle
- https://github.com/souffle-lang/souffle/wiki/ examples
- https://www.youtube.com/watch?
 v=8WM0im4RV7M
- http://blogs.evergreen.edu/sosw/files/2014/04/ Green-Vol5-DBS-017.pdf

On Thursday

Pointer Analysis